

## SolarTech Power Solutions

# Fast charging station with energy storage project



## Overview

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This help sheet provides information on how battery energy storage systems can support electric vehicle (EV) fast charging infrastructure. It is an informative resource that may help states, communities, and other stakeholders plan for EV infrastructure deployment, but it is not intended to be used.

With Electric Era charging stations installed coast-to-coast and dozens more in development, we have proven that storage assisted charging is the superior approach to light-duty EV fast charging. In sharing this technical white paper, we aim to accelerate the EV charging industry, and share.

The California Energy Commission's (CEC) Energy Research and Development Division supports energy research and development programs to spur innovation in energy efficiency, renewable energy and advanced clean generation, energy-related environmental protection, energy transmission, and distribution.

The objective of the project was to create and demonstrate an extreme fast charging (XFC) station that operates at a combined scale exceeding 1 MW while mitigating grid impact with smart charging algorithms and a local energy storage system (ESS). Key achievements included: • The team developed a.

Potomac Edison, a subsidiary of FirstEnergy, announced it has completed a battery energy storage project that is paired with two new EV fast charging

stations and one Level 2 charging station in Frederick County, Md. This project will allow Potomac Edison to study how energy storage can help.

This assistance involved helping a state department of transportation (DOT) analyze the feasibility of a battery energy storage system solution at a grid-constrained EV charging location. The Joint Office provides technical assistance to stakeholders and programs that seek to deploy a network of EV.

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